



FIG. 1

P4 P1 1

1 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQSINWL RDGVQLAE 75
2 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQSINWL RDGVQLAE 75
3 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQSINWL RDGVQLAE 30
4 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQSINWL RDGVQLAE 30
5 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQSINWL RDGVQLAE 30
6 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQSINWL RDGVQLAE 30

ARR

SNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSDALPSSSEDDDDDDSSSEKETDNTKPNP 148
SNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSDALPSSSEDDDDDDSSSEKETDNTKPNRM 150
DALPSSSEDDDDDDSSSEKETDNTKPNP 59
DALPSSSEDDDDDDSSSEKETDNTKPNRM 61
DALPSSSEDDDDDDSSSEKETDNTKPNP 59
DALPSSSEDDDDDDSSSEKETDNTKPNRM 61

2

VAPYWTSPKMEKKLHAPPAKTVKFKCPSGTPNP TLRLKNGKEFKPDHRI GGKVRATWSIIMDSVVP SDK 223
VAPYWTSPKMEKKLHAPPAKTVKFKCPSGTPNP TLRLKNGKEFKPDHRI GGKVRATWSIIMDSVVP SDK 225
VAPYWTSPKMEKKLHAPPAKTVKFKCPSGTPNP TLRLKNGKEFKPDHRI GGKVRATWSIIMDSVVP SDK 134
VAPYWTSPKMEKKLHAPPAKTVKFKCPSGTPNP TLRLKNGKEFKPDHRI GGKVRATWSIIMDSVVP SDK 136
VAPYWTSPKMEKKLHAPPAKTVKFKCPSGTPNP TLRLKNGKEFKPDHRI GGKVRATWSIIMDSVVP SDK 134
VAPYWTSPKMEKKLHAPPAKTVKFKCPSGTPNP TLRLKNGKEFKPDHRI GGKVRATWSIIMDSVVP SDK 136

3

GNYTICIVENEYGSINHTYQOLDVVERSHPRP ILQAGLPANKTVALGSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 298
GNYTICIVENEYGSINHTYQOLDVVERSHPRP ILQAGLPANKTVALGSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 300
GNYTICIVENEYGSINHTYQOLDVVERSHPRP ILQAGLPANKTVALGSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 209
GNYTICIVENEYGSINHTYQOLDVVERSHPRP ILQAGLPANKTVALGSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 211
GNYTICIVENEYGSINHTYQOLDVVERSHPRP ILQAGLPANKTVALGSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 209
GNYTICIVENEYGSINHTYQOLDVVERSHPRP ILQAGLPANKTVALGSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 211

P2

GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHSAWLTVLEALEERPAVMTSPLYL 373
GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHSAWLTVLEALEERPAVMTSPLYL 375
GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHSAWLTVLEALEERPAVMTSPLYL 284
GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHSAWLTVLEALEERPAVMTSPLYL 286
GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHSAWLTVLEALEERPAVMTSPLYL 284
GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHSAWLTVLEALEERPAVMTSPLYL 286

IM

EIIYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSM AVHKLAKSIPLRRQVTVSADSSASMNSGVLLVRPSRLS 448
EIIYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSM AVHKLAKSIPLRRQVTVSADSSASMNSGVLLVRPSRLS 450
EIIYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSM AVHKLAKSIPLRRQVTVSADSSASMNSGVLLVRPSRLS 359
EIIYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSM AVHKLAKSIPLRRQVTVSADSSASMNSGVLLVRPSRLS 361
EVSWEORAGMGGAGL* 300
EVSWEORAGMGGAGL* 302

TK

SSGTPMLAGVSEYELPEDPRWELPRDLVLGKPLGEGCFQGVVLA EAIGLDKDKPNRVTKVAVKMLKSDATEKDL 523
SSGTPMLAGVSEYELPEDPRWELPRDLVLGKPLGEGCFQGVVLA EAIGLDKDKPNRVTKVAVKMLKSDATEKDL 525
SSGTPMLAGVSEYELPEDPRWELPRDLVLGKPLGEGCFQGVVLA EAIGLDKDKPNRVTKVAVKMLKSDATEKDL 434
SSGTPMLAGVSEYELPEDPRWELPRDLVLGKPLGEGCFQGVVLA EAIGLDKDKPNRVTKVAVKMLKSDATEKDL 436

SDLISEMEMMKIGKHKNIIINLLGACTODGPLYVIVEYASKGNLREYLQARRPPGLECYNPSHNPEEQLSKDL 598
SDLISEMEMMKIGKHKNIIINLLGACTODGPLYVIVEYASKGNLREYLQARRPPGLECYNPSHNPEEQLSKDL 600
SDLISEMEMMKIGKHKNIIINLLGACTODGPLYVIVEYASKGNLREYLQARRPPGLECYNPSHNPEEQLSKDL 509
SDLISEMEMMKIGKHKNIIINLLGACTODGPLYVIVEYASKGNLREYLQARRPPGLECYNPSHNPEEQLSKDL 511

VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNMKIADFG LARDIHHIDYKKTNGRLPVKWMAP EALFDR 673
VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNMKIADFG LARDIHHIDYKKTNGRLPVKWMAP EALFDR 675
VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNMKIADFG LARDIHHIDYKKTNGRLPVKWMAP EALFDR 584
VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNMKIADFG LARDIHHIDYKKTNGRLPVKWMAP EALFDR 586

TK

IYTHQSDVWSFGVLLWEIFTLGGSPYPGVPEELFKLLKEGHRMDKPSNCTNELYMMMRDCWHAVPSQRPTFKQL 748
IYTHQSDVWSFGVLLWEIFTLGGSPYPGVPEELFKLLKEGHRMDKPSNCTNELYMMMRDCWHAVPSQRPTFKQL 750
IYTHQSDVWSFGVLLWEIFTLGGSPYPGVPEELFKLLKEGHRMDKPSNCTNELYMMMRDCWHAVPSQRPTFKQL 659
IYTHQSDVWSFGVLLWEIFTLGGSPYPGVPEELFKLLKEGHRMDKPSNCTNELYMMMRDCWHAVPSQRPTFKQL 661

VEDLDRIVALTSNQEYLDLSMPLDQYSPSPDTRSSSTCSSG EDSVFSHEPLPEEPCLPRHPAQLANGGLKRR* 820
VEDLDRIVALTSNQEYLDLSMPLDQYSPSPDTRSSSTCSSG EDSVFSHEPLPEEPCLPRHPAQLANGGLKRR* 822
VEDLDRIVALTSNQEYLDLSMPLDQYSPSPDTRSSSTCSSG EDSVFSHEPLPEEPCLPRHPAQLANGGLKRR* 731
VEDLDRIVALTSNQEYLDLSMPLDQYSPSPDTRSSSTCSSG EDSVFSHEPLPEEPCLPRHPAQLANGGLKRR* 733

FIG. 2